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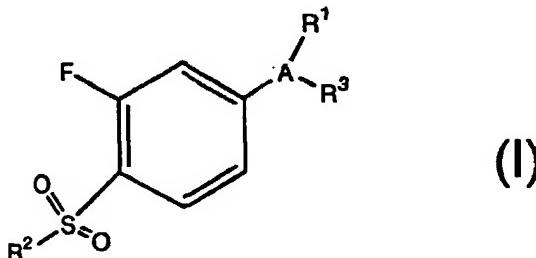
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(54) Title: 2-FLUOROBENZENESULFONYL COMPOUNDS FOR THE TREATMENT OF INFLAMMATION

WO 01/81332 A3



(57) Abstract: Methods of treating cyclooxygenase-2 mediated disorders comprising administering to a subject a therapeutically effective amount of one or more 2-fluorobenzenesulfonyl compounds corresponding to Formula (I) wherein A, R¹, R², and R³ are as described in the specification, and novel 2-fluorobenzenesulfonyl compounds within Formula (I).

INTERNATIONAL SEARCH REPORT

International Application No
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A. CLASSIFICATION OF SUBJECT MATTER					
IPC 7	C07D333/18	C07D231/12	C07D231/16	C07D261/08	C07D307/46
	C07D213/52	A61K31/4155	A61K31/381	A61K31/341	A61K31/42
	A61P29/00				

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CA [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KIMURA, FUMIO ET AL: "Diphenylpyrrole derivatives as cyclooxygenase-2 inhibitors" retrieved from STN Database accession no. 131:82957 XP002178404 compounds with RN=229491-84-3; 229491-85-4; 229491-87-6 abstract & JP 11 180871 A (SANKYO CO., LTD) 6 July 1999 (1999-07-06) -& DATABASE WPI Section Ch, Week 199937 Derwent Publications Ltd., London, GB; Class B03, AN 1999-439387 XP002178405</p> <p style="text-align: right;">-/-</p>	1-3,99, 106-113

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

25 September 2001

Date of mailing of the international search report

20.12.2001

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INTERNATIONAL SEARCH REPORT

International Application No PCT/US 01/12983

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	& JP 11 180871 A (SANKYO CO., LTD., JAPAN) abstract --- EP 0 927 555 A (SANKYO CO) 7 July 1999 (1999-07-07) compounds I-158 - 1-166; 2-152 - 2-160 --- EP 0 745 596 A (JAPAN TOBACCO INC) 4 December 1996 (1996-12-04) examples 1-3,7; table 4 --- WO 94 26731 A (MERCK FROSST CANADA INC ;GAUTHIER JACQUES YVES (CA); LEBLANC YVES) 24 November 1994 (1994-11-24) cited in the application the whole document --- WO 94 15932 A (SEARLE & CO ;MONSANTO CO (US); BERTENSHAW STEPHEN R (US); COLLINS) 21 July 1994 (1994-07-21) claim 12; examples --- WO 99 64415 A (KATO TOMOKI ;PFIZER PHARMA (JP); ANDO KAZUO (JP); KAWAI AKIYOSHI () 16 December 1999 (1999-12-16) cited in the application the whole document -----	1-3,99, 106-113 1-3,5-7, 11-16, 99, 106-113 1-3,5-7, 11-16, 31-41, 93,99, 101, 106-113 1-3,5-7, 11-16, 31-41, 93,99, 101, 106-113 1,99

INTERNATIONAL SEARCH REPORT

International application No.
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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-3, 5-7, 9-16, 31-41, 92, 94, 99, 101, 106-113

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-3,5-7,9-16,31-41,92,94,99,101,106-113

Compounds of formula I in which A is thienyl

2. Claims: 1-3,5-16,55-67,92,96,99,103,106-113

Compounds of formula I in which A is furyl or furanone

3. Claims: 1-3,5-6,9-16,99,106-113

Compounds of formula I in which A is thiazolyl, oxothiazolyl or thioxothiazolyl

4. Claims: 1-3,5-6,9-16,99,106-113

Compounds of formula I in which A is imidazolyl

5. Claims: 1-6,9-16,99,106-113

Compounds of formula I in which A is benzofuryl, indenyl, benzothienyl, benzindazolyl or benzopyranopyrazolyl

6. Claims: 1-3,5-16,42-54,95,99,102,106-113

Compounds of formula I in which A is isoxazolyl

7. Claims: 1-3,5-6,9-16,99,106-113

Compounds of formula I in which A is oxooxazolyl

8. Claims: 1-3,5-30,93,99,100,106-113

Compounds of formula I in which A is pyrazolyl

9. Claims: 1-2,4-6,9-16,68-79,97,99,104,106-113

Compounds of formula I in which A is cyclopentenyl, cyclopentadienyl or phenyl

10. Claims: 1-3,5-7,9-16,80-91,98,99,105-113

Compounds of formula I in which A is pyridinyl

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

11. Claims: 1-4,9-16,99,106-113

Compounds of formula I in which A is a ring system which is
not mentioned in subjects 1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 01/12983

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Information on patent family members

International Application No

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